

Agency Use

Date Rec. 0 120/9.

Amount Rec'd Check No.

Rec'd By WA

FORM NMP

Nutrient Management Plan

READ THIS BEFORE COMPLETING FORM: Before completing this form (Form NMP), Concentrated Animal Feeding Operation (CAFO) operators need to read the General Permit, particularly Part IV.A. CAFO operators also need to read the "Instructions For Filling Out Form NMP," found at the back of the Form. Form NMP is intended to help CAFO operators develop a site-specific Nutrient Management Plan, in compliance with Part IV.A of the General Permit and all applicable State rules and statutes. Your Nutrient Management Plan must be maintained at the site as required in Part III of the General Permit. Sections B and C on your Form NMP must state the information exactly the same way as it was stated on the most recently submitted version of your Form 2B. Attach additional pages as necessary, indicating the corresponding section number on this NMP form. For additional help in filling out this form please read the attached instructions. The 2008 General Permit, current fee schedule, and related forms are available from the Water Protection Bureau at (406) 444-3080 or http://www.deq.mt.gov/wqinfo/MPDES/CAFO.asp

Section A - NMP St	atus (Check one):
☐ New	No prior NMP submitted for this site.
☐ Modification	Change or update to existing NMP.
Permit Number: MT	2010217 (Specify the permit number that was previously assigned to your facility.)
Section B - Facility	or Site Information.
Site Name Z	West Management Cathe Freding Facility
Site Location	6101 Sweet afer R
Nearest City or Town	Dillo: County Bear Lea
Section C - Applican	nt (Owner/Operator) Information: /
Owner or Operator Na	me Bryan Mussam
Mailing Address	6101 Sweet Water Rd
City, State, and Zip Co	ode Dillon, MT59725
Phone Number (4))_925-14/16

Section D - NMP Minimum Elements:		
1. Livestock Statistics		
Anne Tope supreprier of annual		
1. 2372	312	1975 tons
2,		1939, 140 54
3.		
4.		
5.		
6.		
7.		·
8. Method used for estimating annual manure production:		
Method used for estimating annual manure production: Some Formula Left Fron- Gene Su	rber.	
2. Manure Handling Describe manure handling at the facility: Whenure is pile in the oval mounts: Manure mound to ARCO veclemation sight no change to original parm	e control ecols are hauted sond have been	of pen in ablong of by REMILLAN For the past bypans
Frequency of Manure Removal from confinement areas		
Annual		
Is this manure temporarily stored in any location other If so then how and where?	than the confinement area?	☐ Yes No
· · · · · · · · · · · · · · · · · · ·		
Is manure stored on impervious surface? Yes	⊉ No	
If yes, describe type and characteristics of this surface:	1	

3. Waste Control Structures Waste Control Spacinize (pain)					
Mana Sourand Burganan	A PARTICIPAL TO A STATE OF THE	e de la companya dela companya dela companya dela companya de la c			
1		(IV) Kramen (IV)	<i>22920</i> 00		1753.44.
•					
· no Change	to antil	2010 20 1			
· · · · · · · · · · · · · · · · · · ·	10 10 13	ned per in TIT	<u> </u>		
•					
	·				
					<u></u>
).			,		
1.					
2.					
۷.					
Deaverhead	County La	ind III D	urrios	deals, 11/0	dead
Exerted are handled	in cloan	offlered B	Machae	deads, Alla	deal
are handled	in Clear	per m. It	Machner	012015, 11/10	dent
scribe how dead animals are Beaverhead are handled no change to	in close	perm itt	machen	deals, 1111	dead
Everhead are handled no though to	in Close	per m. itt	MACHAR	Olea 15, 11/10	deal
ave handled no change to	in close	perm. itt	Machae	0120.15. 11/10	deal
		perm. itt	Machen	0100/5, N// 0	deal
Clean Water Diversion Pra	ctices		Mache	0120.15, 11/10	deal
Clean Water Diversion Pra	ctices	action area:			
Clean Water Diversion Pra	ctices	action area:			
Clean Water Diversion Pra	ctices	action area:			
Clean Water Diversion Pra	ctices	action area:			
Clean Water Diversion Pra escribe how clean water is diverged by Sils of Cits of Carlos runs and veg skille	ctices verted from produ h /h //sh on \$ 5 He.	action area:			
Clean Water Diversion Pra escribe how clean water is diverged by Sils of Cits of Carlos runs and veg skille	ctices	action area:			
Clean Water Diversion Pra escribe how clean water is div Feed by Cit's o Water runs The Weg Heblie	ctices verted from produ h /h //sh on \$ 5 He.	action area:			
Clean Water Diversion Pra escribe how clean water is div Feed by Cits water Vans was vans	ctices verted from produ h /h //sh on \$ 5 He.	action area:			
Clean Water Diversion Pra escribe how clean water is div Feed by Cits water Vans was vans	ctices verted from produ h /h //sh on \$ 5 He.	action area:			
Clean Water Diversion Pra escribe how clean water is div Feed by Cits water Vans was vans	ctices verted from produ h /h //sh on \$ 5 He.	action area:			

6. Prohibiting Animals and Wastes from Contact with State Waters Describe how animals and wastes are prohibited from direct contact with state waters:
Loshon and wastes are promoted from the contact with state waters:
or 14 mol per in At. An Imak are Forced From State water.
7. Chemicals and Contaminants Describe how chemicals and other contaminants are handled on-site:
8. Best Management Practice (BMPS) Describe in detail all temporary, permanent and structural Best Management Practices (BMPs) which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. Include a schedule for implementation of each of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable. The BMPS are in Cludel in our enlagement Practices (BMPs) which will be used to control runoff of pollutants from facility's production area. Indicate the location of these measures. Examples of BMP measures could include but are not limited to: constructing ditches, terraces, and waterways above an open lot to divert clean water run on; installing gutters, downspouts and buried conduits to divert roof drainage; providing more roofed area; decreasing open lot surface area; repairing or adjusting water systems to minimize water wastage; using practical amounts of water for cooling purposes; recycling water if practical and applicable.
The BMPS are in cluded in our original permit. We do Plan to Construct more torraces and ditches emplant more trees in the future.

Describe in detail all temporary, permanent used to control runoff of pollutants from factorices. If not already in use, include a so details and specifications may be used to surinclude but are not limited to: maintaining s irrigation practices to prevent ponding of was frozen ground; consulting with the Departm ground; applying wastes at agronomic rates. Plant sampling/tissue analysis	cility's land application hedule for implement this description surface that the surface astewater on land a tent prior to applying the surface as the surfa	ation area. Indicate the location of the entation of each of these measures. Attription. Examples of BMP measures on the entation of each of these measures of examples of BMP measures on the entation of each of these measures of examples of each of each of each of each of the entation of the entation of each of the entation of the entation of each of the entation of each of these measures. Attributes the entation of each of these entations are entation of the entation of th	ese tached ould naging wastes onto
Conservation or reduced tillage	yes/no	Manure injection or incorporation	yes/no
Terraces or other water control structures	yes/no	Contour plantings	yes/no
Riparian buffers or vegetative filter strips	yes/no	Winter "scavenger" or cover crops	yes/no
Other examples	" We don'	I land apply	4. 4.
		11 /	
9. Implementation, Operation, Maintenan	nce and Record K	eeping – Guidance	•
The permittee is required to develop guidant maintenance of the facility, and record keep Has a guidance document been developed for	ing as described in	Part II of the permit.	ınd
Certify the document addresses the following Implementation of the NMP: Facility operation and maintenance: Yes Record keeping and reporting: Sample collection and analysis: Manure transfer: Yes	ng requirements: No No No No		•
Provide name, date and location of most rec	ent documentation	For Deq inspects	WS
If your answer to any of the above question	is no, provide expl	anation	

Section E - Land Application Will manure be land applied to land either owned, rented, or leased by the owner or operator of the facility? No If no, then provide an explanation of how animal waste at this site are managed. Yes If yes, then the information requested in Section E must be provided.
Photos and/or Maps Attach an aerial photograph or map of the site where manure is to be applied. (Use multiple photos/maps if necessary to show required details.) The photo(s)/map(s) must be printed on no larger than an 11"x17" piece of paper, and must clearly identify the following items: Individual field boundaries for all planned land application areas A name, number, letter or other means of identifying each individual land application field The location of any down-gradient surface waters The location of any down-gradient open tile line intake structures The location of any down-gradient sinkholes The location of any down-gradient agricultural well heads The location of all conduits to surface waters The specific manure/waste handling or nutrient management restrictions associated with each land application field. The soil type(s) present and their locations within the individual land application field(s) The location of buffers and setbacks around state surface waters, well heads, etc.
Describe the type of equipment used to land apply wastes and the calibrating procedures:
Manure Sampling and Analysis Procedures A representative manure sample will be analyzed a minimum of once annually for Total Nitrogen, and Total Phosphorus. Analysis results will be reported in lbs/ton or lbs/1,000 gal. Results of these analyses will be used in determining application rates for manure, litter, and process wastewater.
Manure Sample collection will occur according to the following method:
The recommended method(s) found in Section 5 of Department Circular DEQ 9
Other (describe) MA und apply the
Soil Sampling and Analysis Procedures A representative soil sample from the top 6 inch layer of soil in each field will be analyzed for phosphorus content at least once every five years. Analyses will be conducted by a qualified laboratory, using the Olsen P test. Results will be reported in parts per million (ppm) and will be used in determining application rates for manure, litter, and process wastewater. Soil sample collection will occur according to the following method: The recommended method(s) found in Section 5 of Department Circular DEQ 9 Other (describe) Not. Spoly // G

Land Application Data-Narrative approach

The following must be filled out <u>for each field</u> to which manure, litter or process wastewater will or may be applied for the period of the permit (5 years). Use as many sheets as necessary to fulfill this requirement. <u>Fields</u> with identical crops and soil types may be grouped together.

Crops and Manure	
	NEW YORK CONTRACTOR OF THE PROPERTY OF THE PRO
	de la litera de la companya de la co
Crop 1 (year 1 or ?) plant species	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure incorporated or broadcast?	
Frequency of Application (yearly, biannual, etc.?)	
Crop 2	
Irrigated (Y/N)	
Yield Goal (ton/ac or bushel/ac)	
N Content of soil as Nitrate (lbs/acre or ppm)	
P Content of soil as P ₂ O ₅ (lbs/acre or ppm)	
Time of Year When Application will Occur (month)	
Application frequency (per year, by month)	
Form of manure (liquid/solid)	
Method of Application	
Is manure broadcast, injected or incorporated?	
Frequency of Application (Annual, Biannual, ,etc?)	
	<u> </u>

Phosphorus Risk Assessment

The permittee shall assess the risk of phosphorus contamination of state waters. An assessment shall be conducted for each field, under the control of the operator, to which manure, litter or process wastewater will or may be applied. If a new field is added in the future, then the permittee must submit a revised (modified) NMP. The permittee has the option of using either Method A or Method B (below) to complete the assessment. Copies of all tables and calculations used to complete the assessments, as well as the results of the assessments, shall be submitted to the Department and copies shall be maintained on-site at the facility and available for Departmental review. The results of the assessments shall be used to determine the appropriate basis for land application of wastes from the facility.

ħ	Æ	-4	L	_	A	T	T.	ed
IN	и	eТ	п	n	n	1	ız	ea

Indicate which method will be used to determine phosphorus application:

Method A – Representative Soil Sample

Method B – Phosphorus Index

Method A - Representative Soil Sample

a) Obtain one or more representative soil sample(s) from the field.

b) Have the sample analyzed for Phosphorus by a qualified lab. The "Olsen P test" must be used for the analysis, and the result must be reported in parts per million (ppm).

c) Using the results of the Olsen P test, determine the application basis according to the Table below

Soil Test	
Oken P 201 That Aesalt (ppm)	Application Bust
<25.0	Nitrogen Needs Of Crop
25.1 - 100.0	Phosphorus Needs Of Crop
100.0 - 150.0	Phosphorus Needs up to Crop Removal Rate
>150.0	No Application

Method B - Phosphorus Index

a) Complete a Phosphorus Index according to for each crop grown on each field. Complete table in Appendix A to calculate phosphorus index. For information on filling out specific sections Appendix A, please refer to Attachment 2 of Department Circular DEQ 9.

b) Using the calculated Total Phosphorus Index Value, assign the overall site/field vulnerability to phosphorus loss according to the table below.

Total Phosphorus	
* * Third Physiologic India Value	Site Vulnerability to Phesphorus Loss
<11	Low
11-21	Medium
22-43	High
>43	Very High

c) Using the calculated Site Vulnerability to Phosphorus Loss, determine the appropriate application basis according to the table below.

doording to the total	
Site Vulnerability to Phosphorus Loss	
TO A CONTROL OF THE PARTY OF TH	Application Basis
Low	Nitrogen Needs
Medium	Nitrogen Needs
	Phosphorus Need Up to Crop Removal
High Very High	Phosphorus Crop Removal or No Application

d) The permittee will complete the *Nutrient Budget Worksheet*, below, for each crop grown on each field to which manure or process waste water is or may be applied during the first year of application. A copy of each Nutrient Budget Worksheet will be maintained on site, and a copy will be submitted to the Department.

Nutrient B	udget Worksheet		
Site/Field:			
		en e	
A.	A production of the second	《中海的政治的 》中国	。""特 里的战场和
	Crop Nutrient Needs, lbs/acre included in		
	Department Circular DEQ 9		
(-)	Credits from previous legume crops,		
	lbs/acre (from DEQ-9), as applicable	·	
(-)	Residuals from past manure production,		
	lbs/acre (lbs/acre applied in previous		
	year(s) x fractions listed in DEQ-9)		
(-)	Nutrients supplied by commercial		
	fertilizer and Biosolids, lbs/acre		
(-)	Nutrients supplied in irrigation water,		
	lbs/acre		
	= Additional Nutrients Needed, lbs/acre		
	Company of the Compan	Market to be stated as the	the second of the second second
	Total Nitrogen and Phosphorus in manure,		·
	lbs/ton or lbs/1,000 gal (from manure test)		
(x)	Nutrient Avalability factor (for Nitrogen		
	based application see DEQ-9, below; for		
	Phosphorus based application use 1.0)		
	= Available Nutrients in Manure,		
	lbs/ton or lbs/1,000 gal		
		Control of the second	The state of the s
	Additional Nutrients needed, lbs/acre		
	(calculated above)		
(/)	Available Nutrients in Manure, lbs/ton or		
	lbs/1,000 gal (calculated above)		
	= Manure Application Rate, tons/acre		·
	or 1,000 gal/acre	<u> </u>	
Comments:			
			
	·		
			•
·			
			·

Section F - CENTIFICATION

Permittee Information:

This Form NMP must be completed, signed, and certified as follows:

- For a corporation, by a principal officer of at least the level of vice president;
- For a partnership or sole proprietorship, by a general partner or the proprietor, respectively; or
- For a municipality, state, federal, or other public facility, by either a principal executive officer or ranking elected official.

All Permittees Must Complete the Following Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information; including the possibility of fine and imprisonment for knowing violations. [75-5-633, MCA]

B. Title (Type or Print)	Mussard	
B. Title (Type or Print)		C. Phone No.
OWh	QV	406-925/4/
D. Signature	/	E. Date Signed

Return the Form NMP, Nutrient Management Plan to:

Department of Environmental Quality
Water Protection Bureau
PO Box 200901
Helena, MT 59620-0901
(406) 444-3080

PERMITING DECONDER 2000 2000

					Saturated	, and the second	C:N Ratio			ОМ	OM	Estimated		
	Feed Lot			EC Sat.	Paste pH	%	(Lol@550C	MATERIAL	Materiai	(Wakley	(LOI @	Volume		
Sample ID	(Owner)	Pen	Date	Past (dS)	(S.U.)	Moisture)	> 2MM (%)	>1" (%)	Black)	550 deg)	(Cu. Yds)	Wet Tons	Dry Tons
08-MUSSARDS-1-0521	MUSSARDS	1	5/21/2008	14600	8.54	58.9	25.6	31	ND	46.7	67.5	30	12.5	5.1
08-MUSSARDS-2-0521	MUSSARDS	3	5/21/2008	7130	9.08	37	25.3	29	ND	40	58.8	30	12.5	7.8
08-MUSSARDS-3-0521	MUSSARDS	8	5/21/2008	10000	8.02	53.6	27.2	30	ND	37.1	47.5	30	12.5	5.8
08-MUSSARDS-4-0521	MUSSARDS	7	5/21/2008	15400	8.29	68.7	16.2	31.5	ND	39.2	60.1	40	16.6	5.2
08-MUSSARDS-5-0521	MUSSARDS	6	5/21/2008	5890	8.62	38.1	27.4	21.6	ND	38.6	73.2	40	16.6	10.3
08-MUSSARDS-6-0521	MUSSARDS	18	5/21/2008	4910	8.49	44.9	29.6	30	ND	27.2	51.3	30	12.5	6.9